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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/817,482	04/02/2004	Hiroshi Kobayashi	B-5409 621803-3	6130

7590 12/23/2008
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EXAMINER

CHOWDHURY, AFROZA Y

ART UNIT	PAPER NUMBER
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2629

MAIL DATE	DELIVERY MODE
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12/23/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/817,482	Applicant(s) KOBAYASHI, HIROSHI	
	Examiner AFROZA Y. CHOWDHURY	Art Unit 2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 October 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed on **October 30, 2008** has been entered. Claims 1-10 are currently pending. Applicant's arguments are addressed herein below.

Specification

2. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:

Regarding claims 1-10, "**first display screen**", "**first position**", "**second display screen**", and "**second position**" are described in the specification as submitted originally.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1 and 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Hirano** (US Patent 6,570,628) in view of **Schaper** (US Patent 7,373,605).

As to claims 1, 9, and 10, Hirano discloses an apparatus comprising:

a first display screen (fig. 1(6a)), configured for movement between a first position and a second position wherein the first display screen at least partially covers a control switch (fig. 2(10), col. 3, lines 59-67) and/or a second display screen (fig. 3(3a)) when the first display is in the second position (col. 4, lines 5-15); and

functionality of the control switch and/or display information are displayed on the second display screen and on the first display screen when the first display screen is in the second position (col. 1, lines 17-22, col. 3, lines 59-67).

Hirano does not specifically teach a control device configured to offer functionality of the control switch and/or display information from the second display screen on the first display screen when the first display screen is in the second position.

Schaper teaches a control device configured to offer display information from the second display screen on the first display screen when the first display screen is in the second position (figs. 2, 4, col. 2, line 49—col. 3, line 2).

Therefore, it would have been obvious to one skill in the art at the time of the invention was made to incorporate the idea of Schaper of displaying information from the second display screen on the first display screen into the display apparatus of Hirano to make an apparatus with a control device that is configured to offer functionality of the control switch and/or display information from the second display screen on the first display screen when the first display screen is in the second position for user's convenient.

As to claim 6, Hirano teaches an apparatus comprising: a movement-control device that controls the movement of said first display screen (col. 3, lines 52-58).

As to claim 7, Hirano teaches an apparatus where the said first display screen is associated with a panel member that is a storage-type panel member (fig. 3(3)).

As to claim 8, Hirano teaches an apparatus wherein said display screen is associated with a panel member is a rotation-type panel member (figs. 2-4).

5. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Hirano** (US Patent 6,570,628) in view of **Schaper** (US Patent 7,373,605) and in further view of **Morimoto et al.** (US Pat. 5,757,359).

As to claim 2, Hirano (as modified by Schaper) discloses a display device that has a display screen for accommodating a display panel to serve information for navigation process and various items of information in a vehicle (col. 4, lines 1-15, in Hirano) and a display screen that gives image with an appearance identical to or that resembles the appearance of information from second display screen (figs. 2, 4, col. 2, line 49—col. 3, line 2, in Schaper).

Hirano (as modified by Schaper) does not teach a display screen that gives image of the control switch.

Morimoto et al. teaches an information display system where input keys appear on the screen and the user can control various functions by touching the key switches (fig. 2(a)-(d), fig. 33, col. 5, lines 32-38).

Therefore, it would have been obvious to one skill in the art at the time of the invention was made to combine the touch panel of the information display system of Morimoto et al. with the display device of Hirano (as modified by Schaper) to make an apparatus for displaying an audio-visual apparatus for a vehicle in order to allow a user to operate entertainment or navigation system by touch control panel.

6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Hirano** (US Patent 6,570,628) in view of **Schaper** (US Patent 7,373,605) and in further view of **Son et al.** (US Pub. 2004/0164974).

As to claim 3, Hirano (as modified by Schaper) discloses a display device that has a first display screen (fig. 1(6a), col. 3, lines 59-67, in Hirano) and a second display screen (fig. 3(3a), in Hirano) displays an operation of the information display apparatus (col. 4, lines 5-15, in Hirano).

Hirano (as modified by Schaper) does not specifically teach a control device that is used to drive the display screen.

However, it would have been obvious to one skill in the art to recognize that the display apparatus of Hirano has to have a control device that controls the display screen.

Hirano (as modified by Schaper) also does not explicitly teach an apparatus where a control device displays an image on a display screen that changes the surface dimensions of the control switch and information from second display screen.

Son et al. teaches a display device where the dimension of the displayed image can be controlled (pages 4-5, [0076]).

Therefore, it would have been obvious to one skill in the art at the time of the invention was made to combine the display device of Son et al. with the display device of Hirano (as modified by Schaper) to make an apparatus in order to attain different surface dimensions of images on a display screen to be different depending on the function of the device, such as navigation or audio-visual apparatus for a vehicle.

7. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Hirano** (US Patent 6,570,628) in view of **Schaper** (US Patent 7,373,605) and in further view of **Watanabe et al.** (US Pat. 6,373,213).

As to claim 4, Hirano (as modified by Schaper) discloses a display device that has a display screen for accommodating information of a first display screen from a second display screen (figs. 2, 4, col. 2, line 49—col. 3, line 2, in Schaper).

Hirano (as modified by Schaper) does not teach a position-detection device that detects the position of a panel member.

Watanabe et al. teaches a position-detection device (encoder, col. 8, lines 41-47) that detects the position of a panel member (fig.1A (D)); and wherein

a control device (microcomputer, col. 7, line 66 – col. 8, line 1) controls such that the functions of a display member (fig. 1A(G), col. 8, lines 4-13) wherein is displayed on the display screen (fig. 1A(G), 1B, and 7A) according to a detected position (fig. 1A).

Therefore, it would have been obvious to one skill in the art at the time of the invention was made to combine the display apparatus of Watanabe et al. with the display device of Hirano (as modified by Schaper) to make an apparatus with a control device that is configured to offer functionality of the control switch and/or display information from the second display screen on the first display screen based on the position detected by the position-detection device.

8. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Hirano** (US Patent 6,570,628) in view of **Schaper** (US Patent 7,373,605) and in further view of **Ogawa et al.** (US Patent 6,628,245).

As to claim 5, Hirano (as modified by Schaper) discloses a display device that has a display screen for accommodating a display panel to serve information for navigation process and various items of information in a vehicle (col. 4, lines 1-15, in Hirano) and a display screen that gives image with an appearance identical to or that resembles the appearance of information from second display screen (figs. 2, 4, col. 2, line 49—col. 3, line 2, in Schaper)..

Hirano (as modified by Schaper) does not teach a switch-display-instruction-receiving device.

Ogawa et al. discloses a switch device that displays a function of a switch presently selected by a user on a switch operating section (col. 1, lines 46-53, fig. 10, 12-14, 16-19) (as best understood).

Therefore, it would have been obvious to one skill in the art at the time of the invention was made to combine the switch device of Ogawa et al. with the display device of Hirano (as modified by Schaper) to make an apparatus is configured to offer functionality of the control switch and/or display information from the second display screen on the first display screen based on the instruction received by the switch-display-instruction-receiving device.

Response to Arguments

9. Applicant's arguments with respect to claims 1-10 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Afroza Y. Chowdhury whose telephone number is 571-270-1543. The examiner can normally be reached on 7:30-5:00 EST, 5/4/9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2629

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AC
12/21/2008

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